

W

Nevada - Utah
1965

August 27

Left Washington 6:15 and arrived Denver at 9:20. Tom met us; stayed at Homestead Motel. Lodging \$4.12.

Aug 28

Went through Estes Park & out US 40 to Vernal Utah for the night. Breakfast 1.34, lunch .65 and supper 2.62, Lodging Vernal 5.35.

Aug. 29

Breakfast 1.40, Lunch 1.49, Supper \$3.00. Went to Dinosaur Nat. Monument, across Uintah Basin, Vernal to Manila, Manila to Green River & Green River to Logan. Met Kube and Norford at 8:30 in Logan. One roll taken in Dinosaur Park and on way between Vernal and Green River. One view of Bear Lake.

Aug 30.

Swan Canyon
No to 19th North west from
main road 89 on road along
S side golf course

4 Swan Peak in Swan Canyon on
B-1.20, lunch 1.50, S-4.00, R-13.46
Clay Basin Rd. line between
25 & 26, T9N, R1W. for high Swan
Peak, last locality on Aug. 30.

In Swan Canyon saw section
from UE through Swan Peak. I
collected lower Garden City about
300' stratig. above the E. fossils
level. Lower Swan Peak has
limy beds in which occur
Archaeorthis and *Syntrophosia*
fossils more above middle
Swan Peak.

Afternoon went $\frac{1}{2}$ mi. W
of Sardine Summit for view
Swan Peak. Graptolites, brachio
and Trilobites in shaly bed.

$\frac{1}{2}$ miles SE of Mantua on
road to Clay Marsa a Swan
Peak locality, excellent for
Trilobites - Check Mantua ☐

August 31

B-1,24, L=1.25

S=2.20 R=4.14

#2 for Williams

10 - Thrust Release (Neb
Thrust of Eardley) N side of
Nephi.

Left Logan early in morning
and went 5 to Provo. Here
called on L. Hinkel and saw
collections from Confusion Range.
After conference with H we came
SW to Delta for the night. Met
Rousseau Flower here!

- Sept. 1
- 11 - 5 of rd. Skull Lake Range
 - 12 - Tallman Skull Rock Range
 - 13 - Confusion Range - and
with Lava cap.
 - 14 - Fault. Small Confusion R.
Warm Point.

The Barn □, Utah

Sept. 1 = About 1 mi. SW of Skull
Rock Pass at junction of road
S. on to into Confusion Range.
Notch Peak □.

Sept 1² - Long section 1/4 mile S
of Fossil Mtn. NW 1/4 30-225-14W.,
The Barn Q. Section started in
upper Wahwah. Collected *Hesperonomiella*
bed, about 1' thick at top of Wahwah.
Sub contained what appears to
Orthambonites subulatus throughout
and with *Anomalorthis* appearing
at the top.

Kanosh is darker shale, begins
with *Anomalorthis* which is
common up to K-11. At the top of
K-11 it is abundant. *O. Micheneri*
common into K-11 but does not
extend to the top of that interval.
It is especially abundant in K-
10 and the lower half to 3/4 of K-11.
A smaller *Orthambonites* appears
at base of K-12. *Dacrydites*
appeared at top of Kanosh.

Sept. 1³ - Wahwah complete section
Alternating limestones with cobble
beds, contained *Hesperonomiella*, *Futcheria*
and *Synstrophopora*. Was collected
some silicified slabs.

Fillmore formation and lower
part of section well displayed
on slopes of mesa.

Sept. 2

Left Ely in morning for Eureka, Nev. Stopped in Alhambra Hills. These are on west side of Newark Valley just N of the Landing Field and about $1\frac{1}{2}$ miles N of Highway US 50. They are on the N side of an angular Theatre in NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ of 30-18 N-55 E on the Pinto Summit \square , Nevada. The lower half of the section is black ls. followed by a light gray limestone which is overlain by Dolomite with *Stringocephalus*. The sub-russellandia bed is 70 feet below *Stringocephalus*.

After collecting here went on to Eureka. Then went to Garden Pass Summit to see *Vinini* shale with graptolites.

Sept. 3.

All day on Lone Mtn.

In morning worked on Owl which is on west side Mtn under a bluff of Eureka quartzite. The section is not very fossiliferous. Lower beds contain *Gerranella*. The *Gerranella* sparse conchoidal interval and also contains *Palliseria* and *Receptaculites*. *Anomalorthis* comes in below *Desmorthis* (200'?). The *Desmorthis* bed is $1-1\frac{1}{2}'$ thick and occurs about 200' ? below The Eureka. Exposures are very poor above *Desmorthis* but I did not see *Anomalorthis* above it.

Becks above *Desmorthis* and *Desmorthis* bed are packed with *Ostracodes*. Above *Desmorthis* they are very large. *Bathynotus* *Trilobites* were also seen.

Sept 3'

Went to see Devonian, up
from saddle at X, lowest beds
above saddle contain corals.
Collected for about 100' above
saddle where *Chonetes*
macrotriatus was common.
Above this *Sp. pinonensis*
come in and we collected
throughout the light and colored
platy limestones with red and
yellow frints. In the upper
part of this unit *Schizophoria*
and *Gypidula* are common.

Above the *Schizophoria*
beds the rock changes to a
drab dark gray with
scarcely any fossils. Above
this interval occur several
beds of dolomite, one of which
had *Wanella*. We collected
only from the lower platy ls.
but not from the Crinoid
equivalent. Probably
mostly *pinonensis* zone

Sept. 4

Morning went to N end
Martins Ridge. Sept 4. - Two
small knobs a mile S of
N end of Martins Ridge
contain a long section of
Antelope Valley fm. Top of
first knob produced 2 tracks.
Top of 2nd knob produced
Antelorthis. On back slope
of second knob and from 0-
10' below the first quartzite
Rube found a peculiar fauna
which seems to have
Valcamoa, *Plectambonitids* and
what looked like *Dumortieria*.

To the SW of this hill and
about 0.4 mile SSE of 7427 came
slopes with *Cyrenthogen* fm.
Lower yellow part of would
guess about 100' thick with
Lowerbyites and other fossils.
Upper slopes of a gully
contained the *Oxoplicid*
fauna. Lower part was
Leptellina, followed by *hugue*
ls. with *Aspidolites*. This was
followed by *Oxoplicina*,
Plectambonites, *Egaleatolonta* -
Christiania. Near top came
Rensselaella but whole section not there.

Started new roll of film with
pictures of abandoned buildings
of Ceruti Ranch. Pictures
of prior roll closed with views
of north end of Martins
Ridge

Set Bull 1187C by Ross & Longwell
Ord. Tms. Nevada & California.

Ross at Eureka \$30.00 - Meals
Breakfast about 1.43, dinner 1.58

Sept. 5

Marched up Nine-Mile Canyon
and a side Canyon to see the
Nine-Mile Canyon fm. Took all
day.

Sept. 6

Spent morning on upper
Copenhagen N of Laguna Ranch.
Isophryna seen in lower
Copenhagen. Renschella from
high (50'?) in Up Copenhagen
below Eureka granite. Rained
out. Came in, packed sacks
for shipment.

Sept. 7
Left Greeba, went across
Monitor Range, past Potts
to Mill Canyon (Wildcat Peak
□). Here we saw thrust plates
with Pogonip, Copenhagen,
Copenhagen, yellow plate &
of Pogonip type with Bismarck
Upper Pogonip with Cryptolithoides,
Antipaxina and Robergia.
After collecting came in to
Austin for the night.

Sept 8

Spent all day in Ihas Canyon.
Saw entire section. O. minuscula
under sponge beds has a
Joaquima-like shell. Between
Rhyostrophia & Leptellina
occurs pleurobionitids. Leptellina
zone has Pleurothis. Went
to Tonopah for night.

Sept 9

Left Inupah for Betty, Mr. Betty to Mecheljohn Park on Bare Mountain. Here saw section from Devonian: Gordonian, 19-mile Canyon, Ostracodella zone, Pallinaria zone, possible sponge-bed equivalent, and at top Leptellina - small Valcamunia. This is overlain by yellowish beds with few fossils but we saw Sarsenbyites, Multicostella, and several others.

Between Pallinaria and Cypridogen occurs Ateleasma. This also seen in the overlying lower (yellow) Cypridogen.

Sept. 10

16-17 Jacki Mtn. & region
Spent up to 2:00 PM in Death
Valley then went to Mercury to
check in.

Sept 11

Ridge E of Frenchman Flat

Lower 75' Orthisella zone
with sparsely scattered specimens.
Cingula present but rare. Great
abundance of brachiopods in
upper 50' - 75', Ectenodonta
occurs in all parts of Orthisella
zone.

Above Orthisella dark granular
rocks abound in Palliseria.
Anomalorthis is common with
and above Palliseria. Very top
beds of Antelope Valley have
Lichasaria and Eoflecheria.
Rube also has identified
Macrorachia here.

In ls in the Eureka quartzite
a few brachiopods were found
which seem to be Valcouria
and possibly Multicostella.

Goodwin

Sept. 12

1. 200' below 8-Mile
2. Between 1 & 3
3. Just below 8-Mile member

Visited Palute Ridge on Papoose Lake \square north of Mercury. Full section of Goodwin. First collected 200' below 8-Mile member in the lower Goodwin. Xenostegium beds. Next collection a short distance higher. Third collection from just below base of 8-Mile in the Kanabian zone.

Afternoon went to striped hills about 30 miles W of Mercury and collected 8-Mile Canyon Formation, here upside-down by overturning. Rock cleaved and indurated. Collecting not good.